

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/622,241
Filing Date	July 18, 2003
First Named Inventor	Steven E. Koenck
Group Art Unit	2618
Examiner Name	Minh D. Dao
Attorney Docket Number	14410US02

Sheet 1 of 4

**U.S. PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/MD/	A1	4,707,829	11-17-1987	Pendse	_____
	A2	4,910,794	03-20-1990	Mahany	_____
	A3	4,945,532	07-31-1990	Hald	_____
	A4	5,070,536	12-03-1991	Mahany	_____
	A5	5,175,537	12-29-1992	Jaffe	_____
	A6	5,214,647	05-25-1993	Komatsu	_____
	A7	5,295,154	03-15-1994	Meier	_____
	A8	5,359,320	10-25-1994	Jaffe	_____
	A9	5,485,147	01-16-1996	Jaffe	_____
	A10	5,625,825	04-29-1997	Rostoker	_____
	A11	4,063,220	12-13-1977	Metcalfe	_____
	A12	4,251,865	02-17-1981	Morris	_____
	A13	4,332,027	05-25-1982	Malcolm	_____
	A14	4,661,902	04-28-1987	Hochsprung	_____
	A15	4,689,786	08-25-1987	Sldhu	_____
	A16	4,987,571	01-22-1991	Haymond	_____
	A17	5,164,942	11-17-1992	Kamerman	_____
	A18	5,673,031	09-30-1997	Hill	_____

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
/MD/	B1	JP 1117533	05-10-1989	Inoue	_____	
	B2	JP 1119146	05-11-1989	Murono	_____	
	B3	JP 1143536	06-06-1989	Deguchi	_____	
	B4	JP 1152837	05-15-1989	Courtois	_____	
	B5	JP 1305637	12-08-1989	Tanaka	_____	
	B6	JP 2051922	02-21-1990	Iijima	_____	
	B7	JP 3268534	11-29-1991	Yamaguchi	_____	
	B8	JP 4123628	04-23-1992	Shikoku	_____	
	B9	JP 4199934	07-21-1992	Hiroyuki	_____	

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/Minh Dao/

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<sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Group Art Unit	2818
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Attorney Docket Number	14410US02

Sheet 2 Of 4

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		Country Code <sup>2</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
/MD/ ↓ ↓ ↓ ↓ ↓	B10	JP 4259140	09-14-1992	Kobayashi	_____	
	B11	JP 5253132	10-05-1993	Toshiyuki	_____	
	B12	JP 58159036	09-21-1983	Hasegawa	_____	
	B13	JP 61100041	05-19-1986	Yamao	_____	
	B14	JP 61251251	11-08-1986	Hirasawa	_____	
	B15	WO 96-10304	04-04-1996	Sherer	_____	

**OTHER ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	<del>ANDREWS, et al., "Inside Apple Talk, 2nd Edition", Addison-Wesley Publishing Company</del>
/MD/	C2	FAKHOURI et al., "Coding And Multiple Access Techniques For Data Transmission In Land-Mobile Satellite Networks", IEEE Pacific Rim Conference On Communications, Computers And Signal Processing, pp. 410-413, 05/09-10/1991
/MD/	C3	GLASS et al., "Broad-Band Networks For LAN And Radio Applications", IEEE 38 <sup>th</sup> Vehicular Technology Conference, pp. 44-51, 06/15-17/1988
	C4	HASHEMI et al., "An Efficient Reservation System For Local Area Networks Based On CSMA/CD", IEEE Pacific Rim Conference On Communications, Computers And Signal Processing, pp. 1-4, 06/01-02/1989
	C5	HU et al., "Collision Resolution Algorithms For CDMA Systems", IEEE Journal On Selected Areas In Communications, Vol. 8, No. 4, pp. 542-554, 05/1990
	C6	KARN, "MACA - A New Channel Access Method For Packet Radio", ARRL/CRRRL Amateur Radio 9 <sup>th</sup> Computer Networking Conference, pp. 134-140, 09/1990
	C7	KLEINROCK et al., "Packet Switching In Radio Channels: New Conflict-Free Multiple Access Schemes", IEEE Transactions On Communications, Vol. COM-28, No. 7, pp. 1015-1029, 07/1980
	C8	KLEINROCK, "On Queueing Problems In Random-Access Communications", IEEE Transactions On Information Theory, Vol. IT-31, No. 2, pp. 166-175, 03/1985
	C9	KLEINROCK, "On Resource Sharing In A Distributed Communication Network", IEEE Communications Magazine, pp. 27-34, 01/1979
	C10	LEINER et al., "Issues In Packet Radio Network Design", IEEE Proceedings, Vol. 75, No. 1, pp. 6-20, 01/1987

EXAMINER

/Minh Dao/

DATE CONSIDERED

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Substitute for form 1449A/PTO				<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary))				Application Number	10/822,241
				Filing Date	July 18, 2003
				First Named Inventor	Steven E. Koenck
				Group Art Unit	2618
				Examiner Name	Minh D. Dao
Sheet	3	Of	4	Attorney Docket Number	14410US02

**OTHER ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
/MD/	C11	ONUNGA et al., "Personal Computer Communications On Intrabuilding Power Line LAN's Using CSMA With Priority Acknowledgements", IEEE Journal On Selected Areas In Communications, Vol. 7, No. 2, pp180-191, 02/1989
	C12	PEHA et al., "Implementation Strategies For Scheduling Algorithms In Integrated-Services Packet-Switched Networks", Global Telecommunications Conference, 1991, GLOBECOM '91, pp.1733-1740, 12/02-05/1991
	C13	SCHOLL et al., "On A Mixed Mode Multiple Access Scheme For Packet-Switched Radio Channels", IEEE Transactions On Communications, Vol. COM-27, No. 6, pp. 906-911, 06/1979
	C14	TAKAGI et al., "A Tutorial On The Analysis Of Polling Systems", Computer Science Dept., Univ. Of Calif., Los Angeles, 06/01/1984
	C15	TAN et al., "A New Free-Access Collision Resolution Algorithm Based Connection Request procedure For Land Mobile Satellite Systems", INFOCOM '89, Eighth Annual Joint Conference Of The IEEE Computer And Communications Societies Proceedings, pp. 1057-1062, 1989
	C16	TANENBAUM, Computer Networks, Prentice-Hall, Inc., 1981
	C17	TANENBAUM, Computer Networks, 2nd Edition, Prentice-Hall, Inc., 1988
	C18	TOBAGI et al., "Packet Switching In Radio Channels: Part IV Stability Considerations And Dynamic Control In Carrier Sense Multiple Access", IEEE Transactions On Communications, Vol. COM-25, No. 10, pp. 1130-1119, 10/1977
	C19	TOBAGI et al., "Packet Radio And Satellite Networks", IEEE Communications Magazine, Vol. 22, No. 11, pp. 24-40, 11/1984
	C20	TOBAGI et al., "Packet Switching In Radio Channels : Part III-Polling and (Dynamic) Split-Channel Reservation Multiple Access", IEEE Transactions On Communications, Vol. COM-24, No. 8, pp. 832-845, 08/1976
	C21	TOBAGI et al., "Packet Switching In Radio Channels: Part I-Carrier Sense Multiple-Access And Their Throughput-Delay Characteristics", IEEE Transactions On Communications, Vol. CCOM-23, No. 12, pp. 1400-1416, 12/1975.
	C22	TOBAGI et al., "Packet Switching In Radio Channels: Part II-The Hidden Terminal Problem In Carrier Sense Multiple-Access And The Busy-Tone Solution", IEEE Transactions On Communications, Vol. CCOM-23, No. 12, pp. 1417-1433, 12/1975.
	C23	TOBAGI, "Multiaccess Protocols In Packet Communication System", IEEE Transactions On Communications, Vol. COM-28, No. 4, pp. 468-488, 04/1980
↓	C24	YUE, "Performance Analysis Of Cellular Mobile Radio Systems Using Slotted ALOHA Protocol With Capture", IEEE Pacific Rim Conference On Communications, Computers And Signal Processing, pp. 550-553, 05/09-10/1991

EXAMINER	/Minh Dao/	DATE CONSIDERED	04/05/2007
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Sheet	4	Of	4

OTHER ART -- NON PATENT LITERATURE DOCUMENTS		
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	C25	<del>Plaintiff and Counterdefendant Qualcomm Incorporated's Preliminary Invalidity Contentions For U.S. Patent Nos. 5,500,872, 5,627,412, 5,946,344, 6,075,807, 6,320,690, And 6,714,559</del>
/MD/	C26	JOHNSON, "Thoughts on an Adaptive Link Level Protocol." Tucson Amateur Packet Radio Colorado Springs, 1989
/MD/	C27	SIDHU et al., "Inside Appletalk", Second Edition, Addison-Wesley Publishing Company, Inc., 1990
	C28	<del>Claim Construction Order for U.S. Patent No. 6,714,559</del>
/MD/	C29	BACKES, "Spanning Tree Bridges, Transparent Bridges for Interconnection of IEEE 802 LANS", IEEE Network, Vol. 2, No. 1, 01/1988
/MD/	C30	HUANG et al., "Throughput Analysis And Protocol Design For CSMA and BTMA Protocols Under Noisy Environments", IEEE Proceedings-I, Vol. 139, No. 3, 06/1992
	C31	<del>JOHNSON, "Thoughts on an Adaptive Link Level Protocol"</del>
/MD/	C32	KIESEL et al., "A New CSMA-CD Protocol for Local Area Networks with Dynamic Priorities and Low Collision Probability", IEEE Journal on Selected Areas in Communications, Vol. SAC-1, No. 5, 11/1983
	C33	KLEINROCK et al., "Spatial Reuse in Multihop Packet Radio Networks", Proceedings of the IEEE, Vol. 75, No. 1, 01/1987
	C34	MARSAN et al., "Multichannel Local Area Network Protocols", IEEE Journal on Selected Areas in Communications, Vol. SAC-1, No. 5, 11/1983
	C35	ONUNGA et al., "Performance Analysis of CSMA with Priority Acknowledgments (CSMA/PA) on Noisy Data Networks with Finite User Population", IEEE Transactions on Communications, Vol. 29, No. 7, 07/1991
	C36	PURSLEY, "The Role of Spread Spectrum in Packet Radio Networks", Proceedings of the IEEE, Vol. 75, No. 1, 01/1987
	C37	TAKAGI et al., "Throughput Analysis for Persistent CSMA Systems", IEEE Transactions on Communications, Vol. Com-33, No. 7, 07/1985
	C38	TSAO, "A Local Area Network Architecture Overview, Defining LAN Environments and User Needs", IEEE Communications Magazine Vol. 22, No. 8, 08/1984
	C39	Yang, Yaling and Kravets, Robin, "Contention-Aware Admission Control for Ad Hoc Networks", IEEE Transactions on Mobile Computing, Vol. 4, No. 4, 07/2005-08/2005
✓	C40	December 12, 2005 Case Management Order in Qualcomm Inc. v. Broadcom Corp., 05-cv-1392 B (BLM)

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**U.S. PATENTS****Remove**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/MD/	1	4665519	B1	1987-05-12	Kirchner et al.	_____
/MD/	2	5043721	B1	1991-08-27	May	_____
/MD/	3	5220593	B1	1993-07-15	Zicker et al.	_____
/MD/	4	5367563	B1	1994-11-22	Sainton	_____
/MD/	5	5487181	B1	1996-01-23	Dailey et al.	_____
/MD/	6	5790952	B1	1998-08-04	Seazholtz et al.	_____
/MD/	7	5940771	B1	1999-08-17	Gollnick et al.	_____
/MD/	8	6014705	B1	2000-01-11	Koenck et al.	_____

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/MD/	9	6058304	B1	2000-05-02	Callaghan et al.	<hr/>
/MD/	10	6434405	B1	2002-08-13	Sashihara	<hr/>
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**CERTIFICATION STATEMENT**

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☒ See attached certification statement.

☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ None

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Name/Print	John A. Wiberg	Registration Number	44,401

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



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(use several sheets if necessary)	APPLICANTS: Koenck et al.	

REFERENCE DESIGNATION			U.S. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
/MD/	A2	4,519,068	05-21-1985	KREBS ET AL.	---	
	A3	4,545,023	10-01-1985	Mizzi	---	
	A4	4,680,787	07-14-1987	MARRY	---	
	A5	4,731,796	03-15-1988	MASTERON ET AL.	---	
	A6	4,737,975	04-12-1988	SHAFFER	---	
	A7	4,761,822	08-02-1988	MAILE	---	
	A8	4,777,657	10-11-1988	GILLASPIE	---	
	A11	4,807,282	02-21-1989	KAZAN ET AL.	---	
	A12	4,817,115	03-28-1989	CAMP ET AL.	---	
	A13	4,850,009	07-18-1989	ZOOK ET AL.	---	
	A14	4,890,832	01-02-1990	KOMAKI	---	
	A15	4,894,792	04-16-1990	MITCHELL	---	
	A16	4,916,441	04-10-1990	GOMBRICH	---	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
/MD/	C1	Bagby, <i>One Approach to Wireless Network Architecture</i> , Document P802.11/91-2
	C2	Biba, <i>A Hybrid Wireless MAC Protocol Supporting Asynchronous and Synchronous MSDU Delivery Services</i> , IEEE P802.11/91-92
	C3	Biba, <i>A Modest Proposal for a Asynchronous, Data Intensive, Wireless Local Area Network</i> , Document P802.11/91-25
	C9	Hoberecht, <i>A Layered Network Protocol for Packet Voice and Data Integration</i> , IEEE Journal on Selected Areas in Communications, Vol. SAC-1, No. 6 (Dec. 1993)
	C10	Rypinski, <i>Architecture - Topology and Protocol Stacks</i> , IEEE 802.11/91-21
	C11	Austin, <i>The Universal Port Concept</i> , AT&T Technical Journal (March/April 1989)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
/MD/	A18	4,969,206	11-06-1990	DESROCHERS	---	
	A21	5,008,879	04-16-1991	FISCHER ET AL.	---	
	A25	5,033,109	07-16-1991	KAUNA ET AL.	---	
	A27	5,055,660	10-08-1991	BORTAGNA ET AL.	---	
	A30	5,117,501	05-26-1992	CHILDRRESS ET AL.	---	
	A33	5,123,029	06-16-1992	BAUTZ ET AL.	---	
	A36	5,142,573	08-25-1992	UMEZAWA.	---	
	A39	5,153,878	10-06-1992	KREBS	---	
	A42	5,179,721	01-12-1993	COMROE ET AL.	---	
	A43	5,181,200	01-19-1993	HARRISON	---	
	A45	5,239,662	08-24-1993	DANIELSON ET AL.	---	
↓	A46	5,241,542	08-31-1993	KATARAJAN ET AL.	---	
	A48	5,249,220	09-28-1993	MOSKOWITZ ET AL.	---	

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO

EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
/MD/	C12	Baker, CT2/CA1 Technology and the Common Air Interface, Colloquium on "CT2/CA1 AND DECT CORDLESS TELECOMMUNICATIONS" (Nov. 1990)
	C13	Chia, The Universal Mobile Telecommunication System, IEEE Communications Magazine (Dec. 1992)
	C14	Digital European Cordless Telecommunications Reference Document (March 1991)
	C15	Epstein, Application of Commercial Wireless LAN Technology to Forward Area Mobile Communication, MILCOM '93
	C16	Grillo, European Perspectives on Third Generation Personal Communication Systems, 40 <sup>th</sup> IEEE Ventricular Technology Conference (May 1990)
↓	C17	Grillo, Towards Third Generation Mobile Systems: A European Possible Transition Path, Computer Networks and ISDN Systems (March 1993)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/SUBCLASS	FILING DATE
/MD/	A49	5,249,302	09-28-1993	Metroka et al.	_____	
	A50	5,265,238	11-23-1993	Carnova et al.	_____	
	A55	5,289,469	02-22-1994	Tanaka	_____	
	A56	5,291,516	03-01-1994	Dixon et al.	_____	
	A60	5,323,392	06-21-1994	Ishii et al.	_____	
	A61	5,331,509	07-19-1994	Kikinis	_____	
	A62	5,349,649	09-20-1994	Iijima	_____	
	A64	5,363,121	11-08-1994	Freud	_____	
	A65	5,373,149	12-13-1994	Rasmussen	_____	
	A69	5,406,615	04-11-1995	Miler II et al.	_____	
	A70	5,406,643	04-11-1995	Burke et al.	_____	
	A71	5,418,837	05-23-1995	Johansson et al.	_____	
	A72	5,423,002	06-06-1995	Hart	_____	
	A73	5,426,637	06-20-1995	Derby et al.	_____	
	A74	5,430,845	07-04-1995	Rimmen et al.	_____	
	A75	5,438,329	08-01-1995	Gattoni et al.	_____	

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EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
/MD/	C20	Rahnema, <i>Overview of the GSM System and Protocol Architecture</i> , IEEE Communications Magazine (April 1993)
/MD/	C21	Ramsdale, <i>Personal Communications --- Toward the Third Generation</i> , Third IEEE Conference on Telecommunications (1991)
/MD/	C22	Tuttlebee, <i>Cordless Telecommunications in Europe</i> (1990)

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/MD/	A78	5,481,265	01-02-1996	Russell	_____	
	A79	5,481,562	01-02-1996	Pearson et al.	_____	
	A80	5,533,029	07-02-1996	Gardner	_____	
	A81	5,535,373	07-09-1996	Olnowich	_____	
	A82	5,544,222	08-06-1996	Robinson et al.	_____	
	A83	5,579,487	11-26-1996	Meyerson et al.	_____	
	A85	5,628,055	05-06-1997	Stein	_____	
	A86	5,630,061	05-13-1997	Richter	_____	
	A87	5,680,633	10-21-1997	Koenck et al.	_____	
	A88	5,732,346	03-24-1998	Lazaridix et al.	_____	
	A89	5,796,727	08-18-1998	Harrison et al.	_____	
	A91	5,839,051	11-17-1998	Grimmett et al.	_____	
	A92	4,855,905	08-08-1989	Estrada et al.	_____	
	A94	5,115,432	05-19-1992	Haas	_____	
	A95	5,212,684	05-18-1993	MacNamee	_____	
↓	A96	5,239,466	08-24-1993	Morgan et al.	_____	
	A97	5,247,520	09-21-1993	Greise et al.	_____	

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/MD/	A98	5,278,834	01-11-1994	Mazzda	_____	
↓	A99	5,335,276	09-02-1994	Thompson et al.	_____	
	A103	5,408,661	04-18-1995	Kizdnaga	_____	
	A105	5,465,401	11-07-1995	Thompson	_____	
	A106	5,517,553	05-14-1996	Sato	_____	
↓	A107	5,724,647	03-04-1998	Sato	_____	
	A108	6,192,255	02-20-2001	Lewis et al.	_____	

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